

Fig. 1

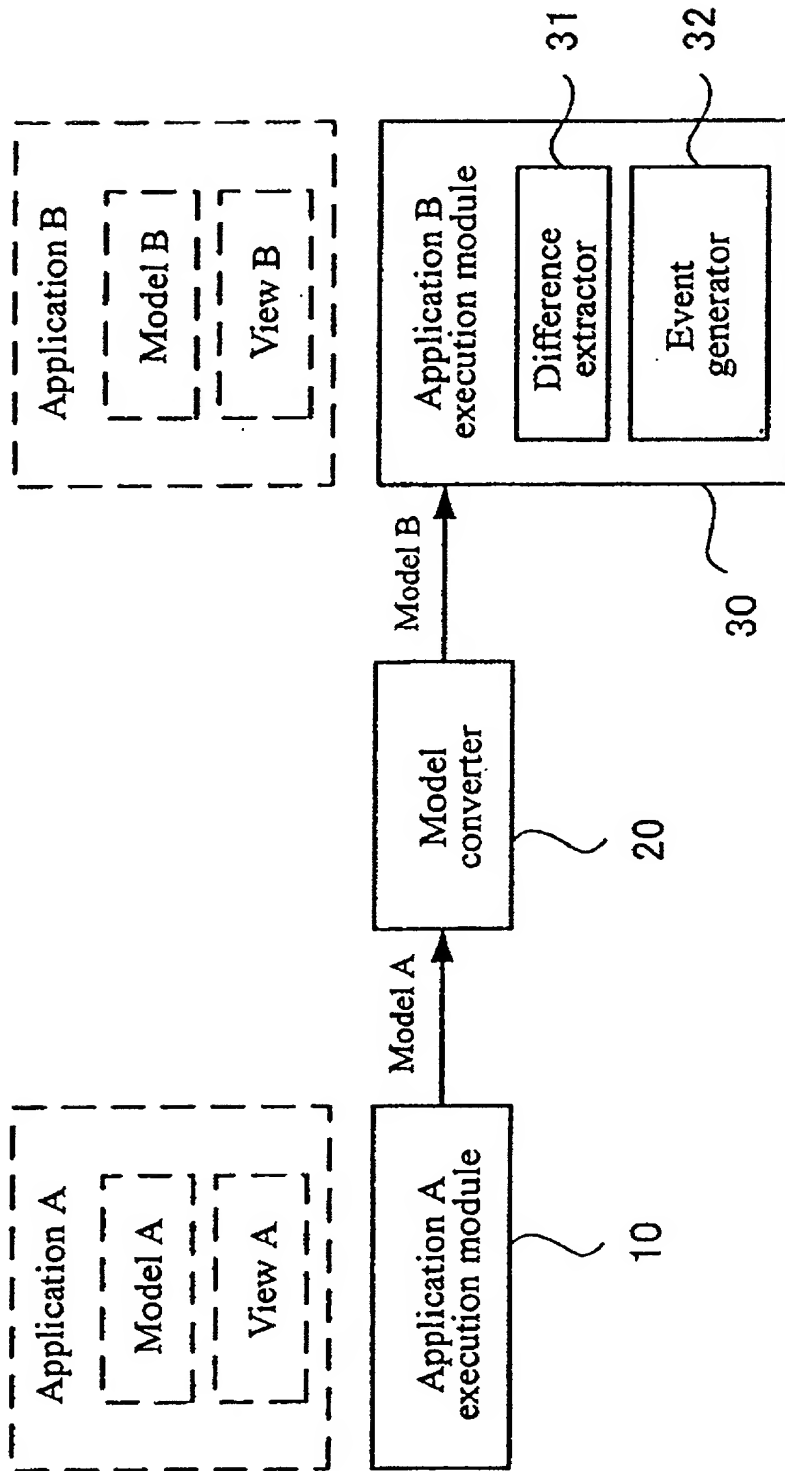


Fig. 2

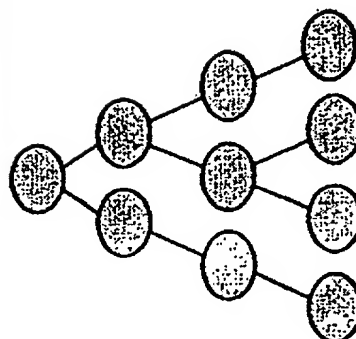
[illegible][illegible]

View

View A

View B

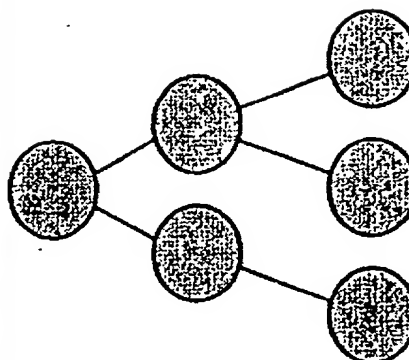
Model



Model A

Application A

Model conversion



Model B

Application B

Fig. 3

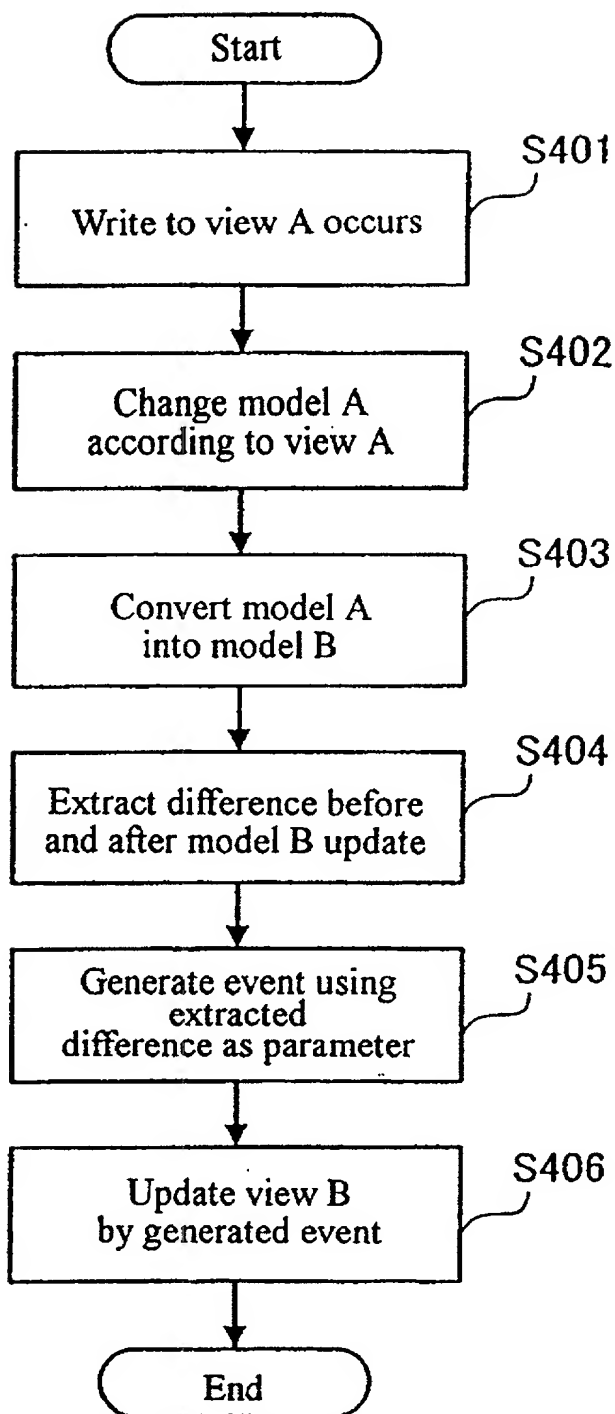
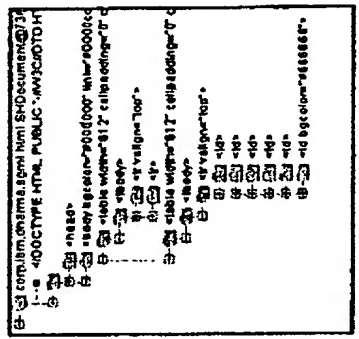


Fig. 4

Patent & Trademark Office



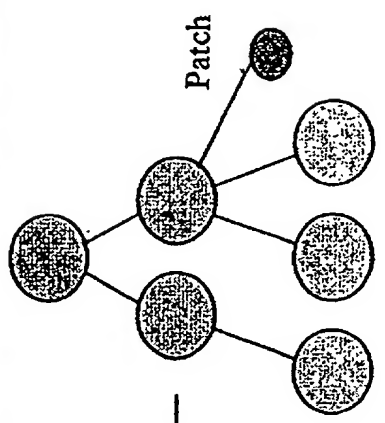
S406



View B



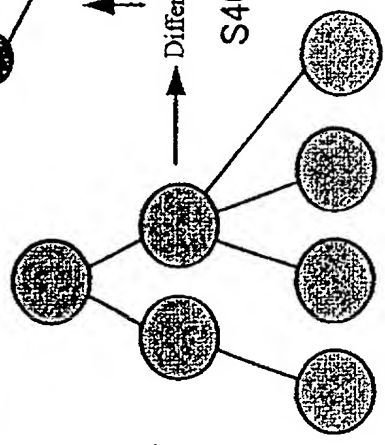
S405



Model B
before change

Difference

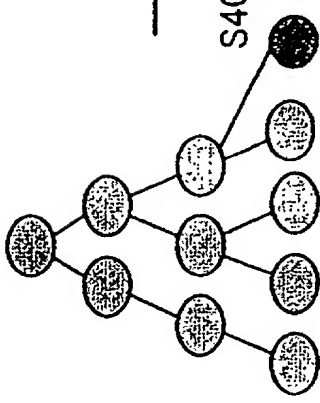
S404



Changed
model B

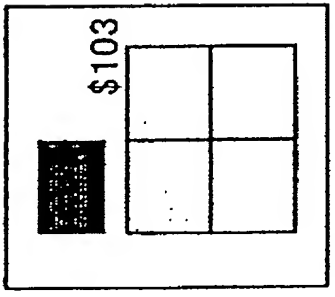
S403

S402



Model A

S401



View A

View

Fig. 5

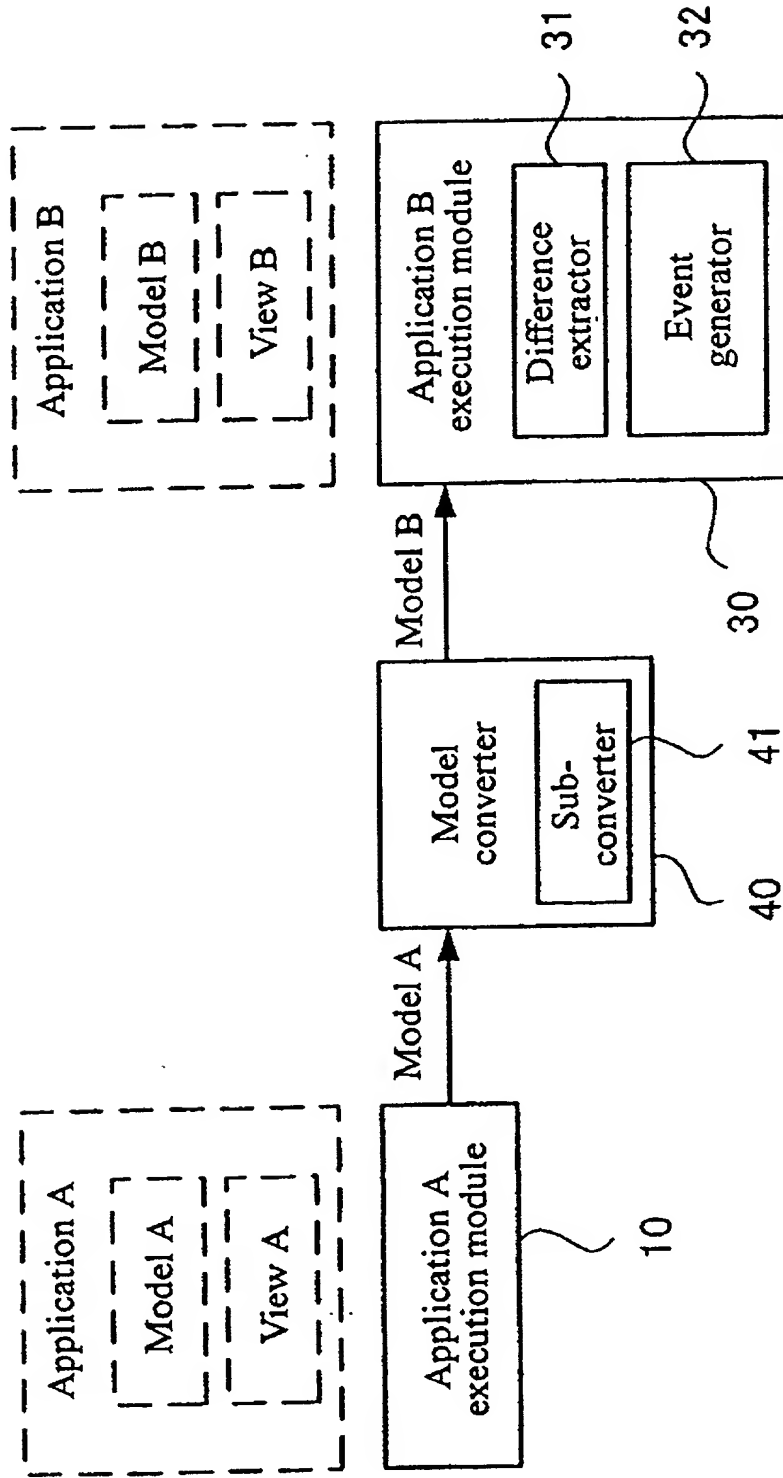


Fig. 6

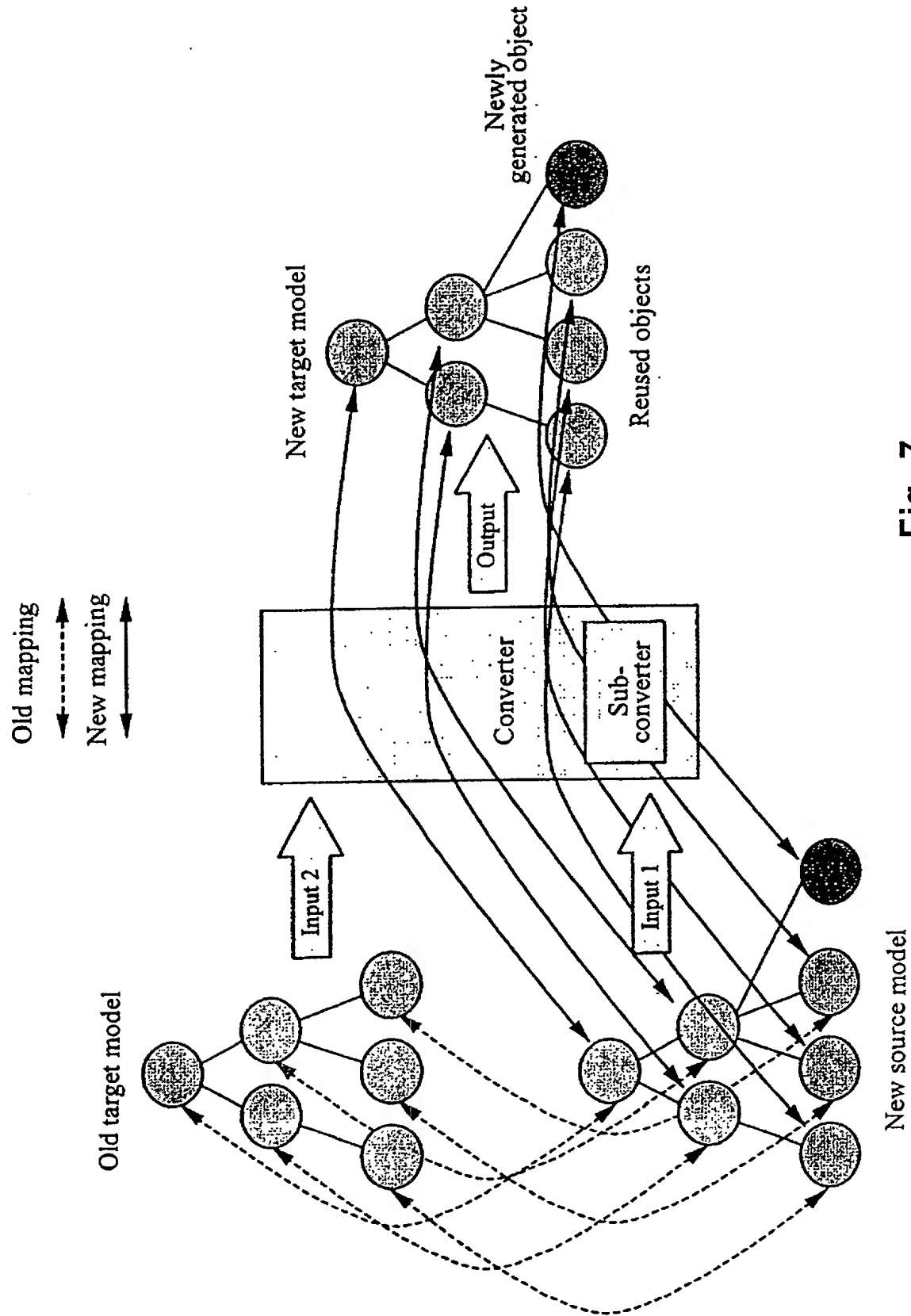


Fig. 7



8/39
G. Kondo
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Old mapping
New mapping

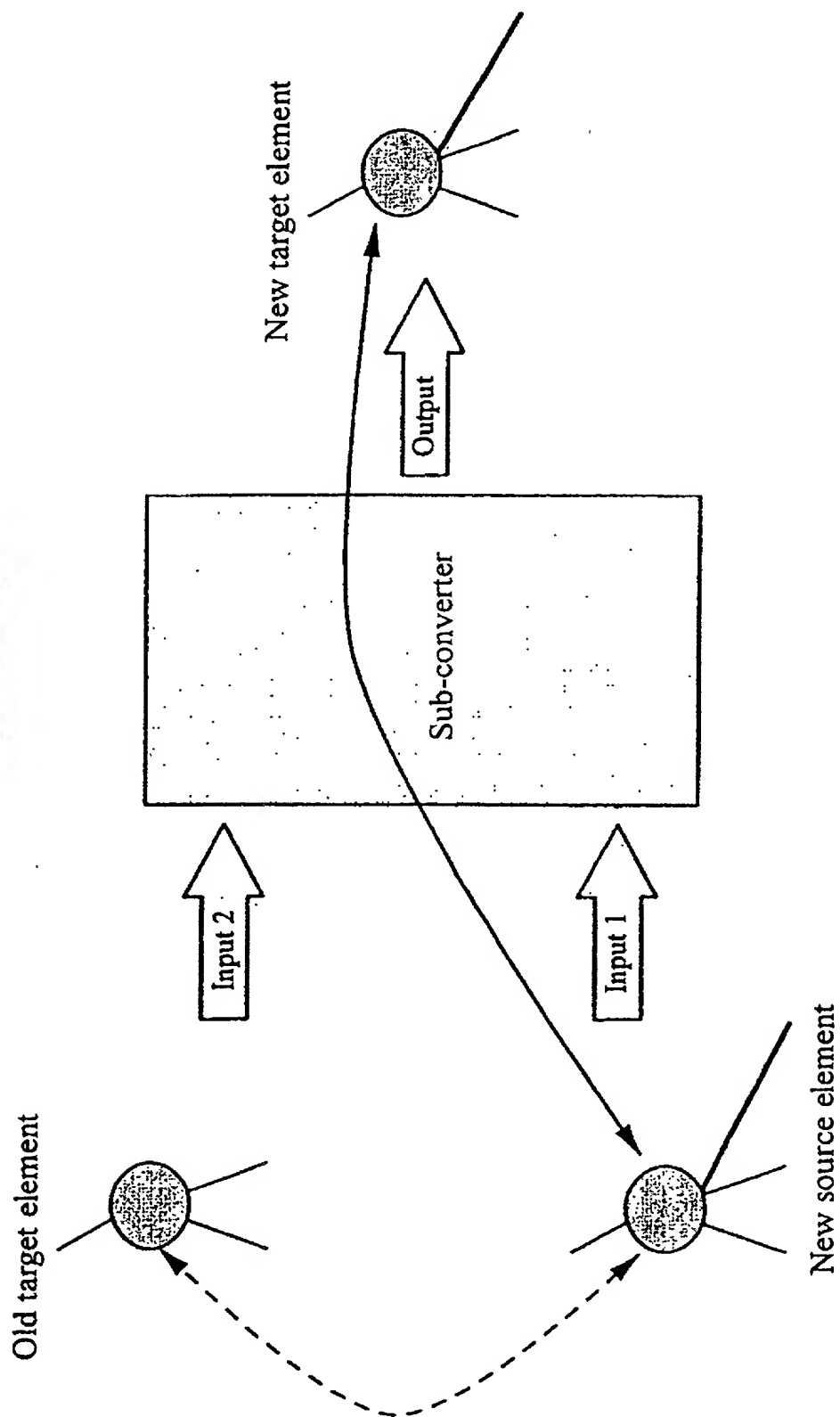


Fig. 8

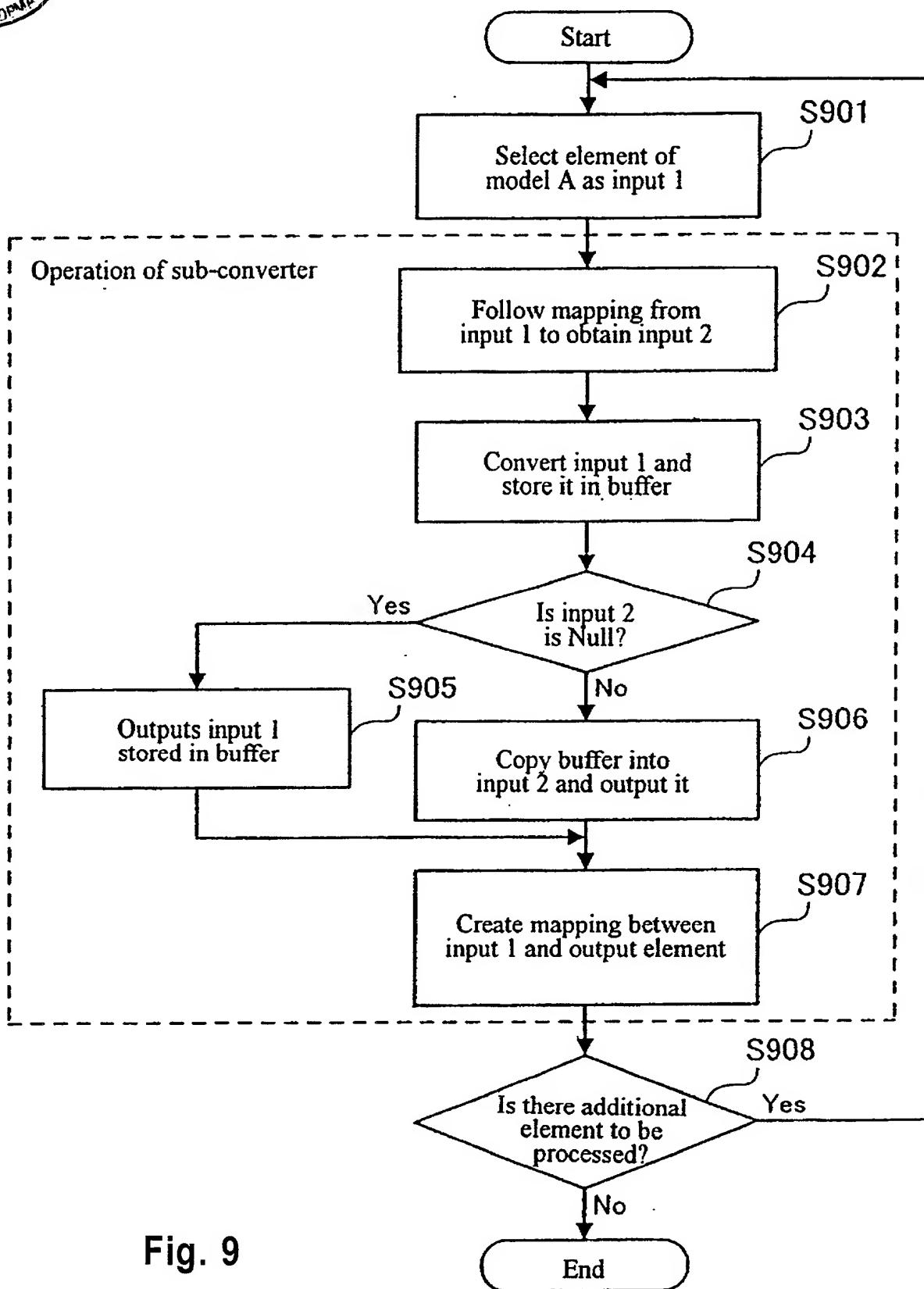
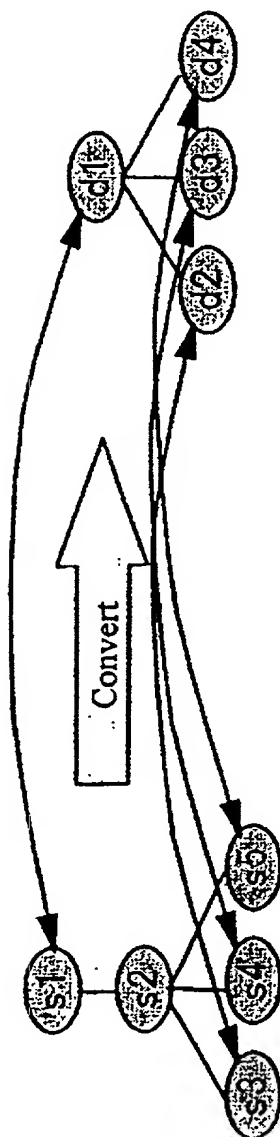
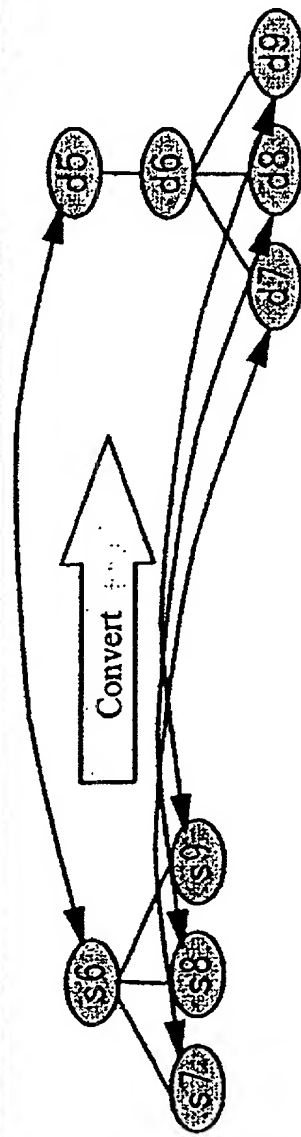


Fig. 9

(A) Decrease type



(B) Increase type



(C) Multiplying type

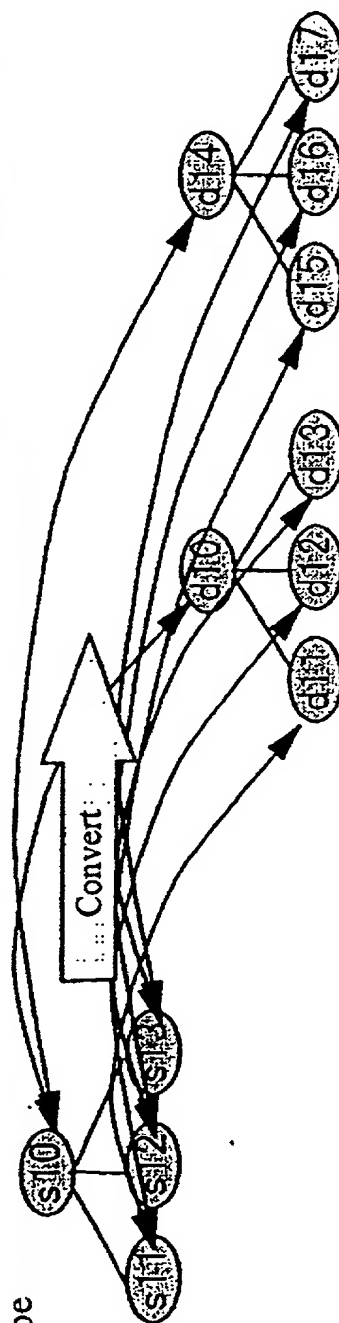


Fig. 10

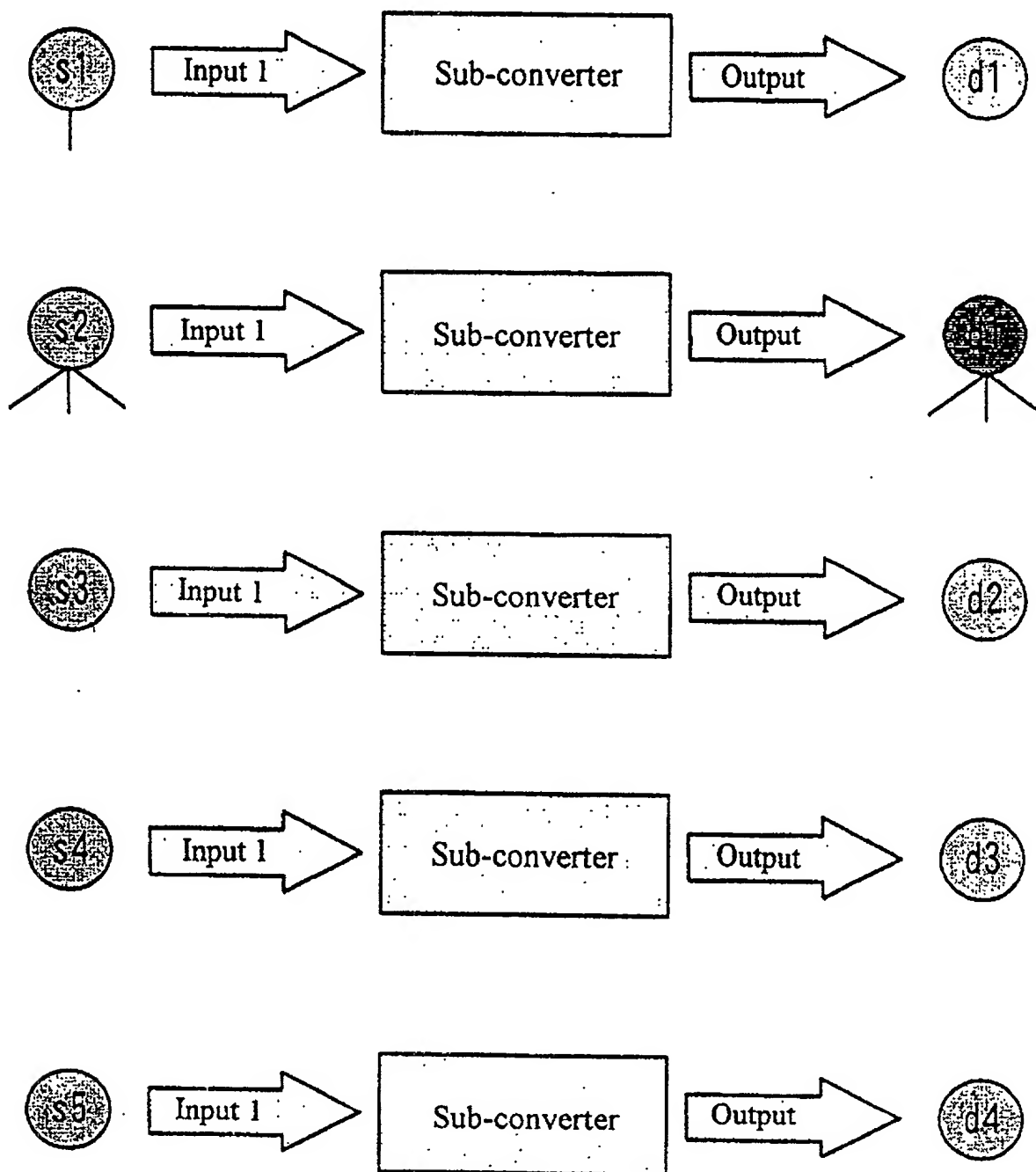


Fig. 11

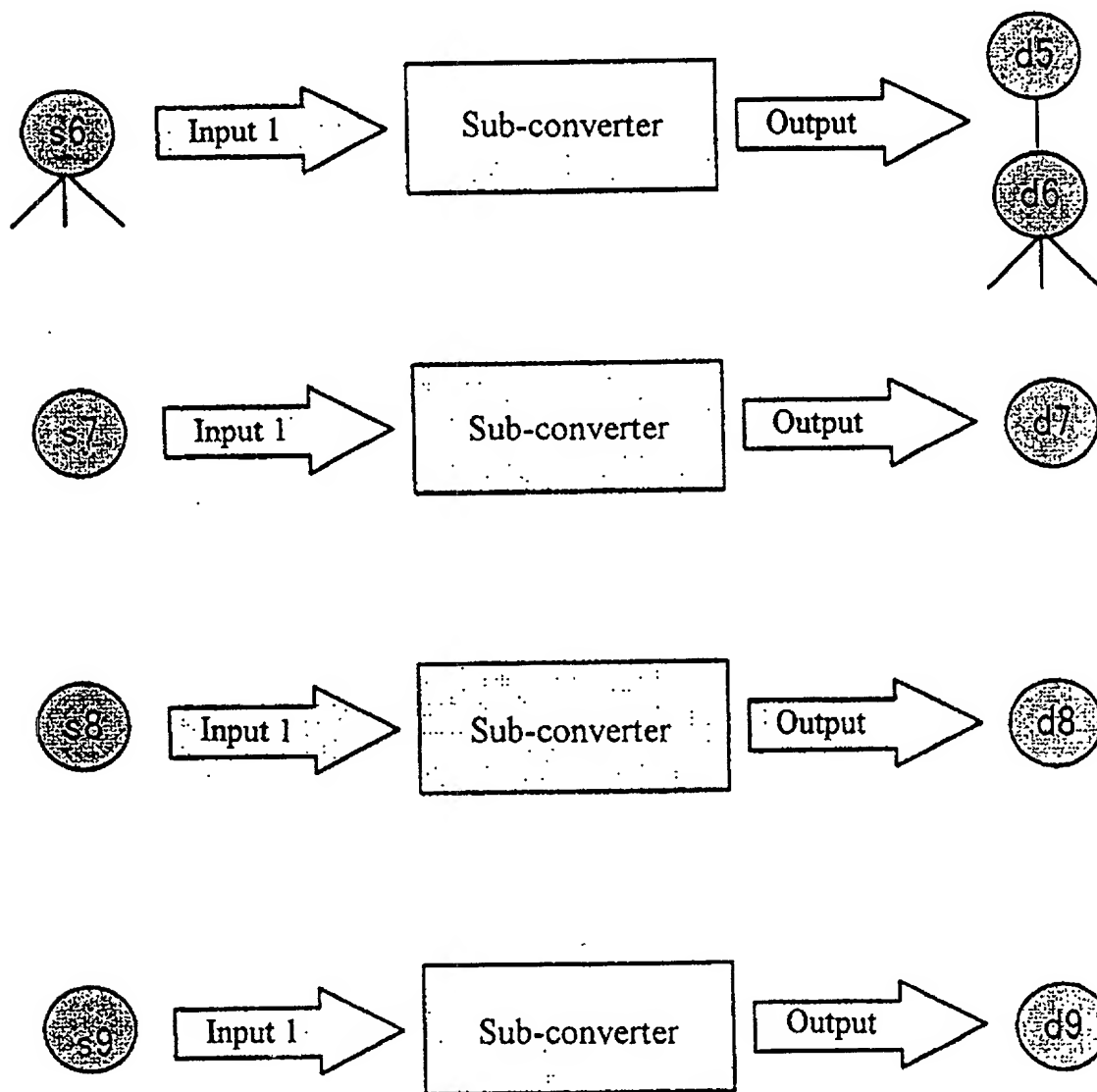


Fig. 12



13/39
G. Kondo
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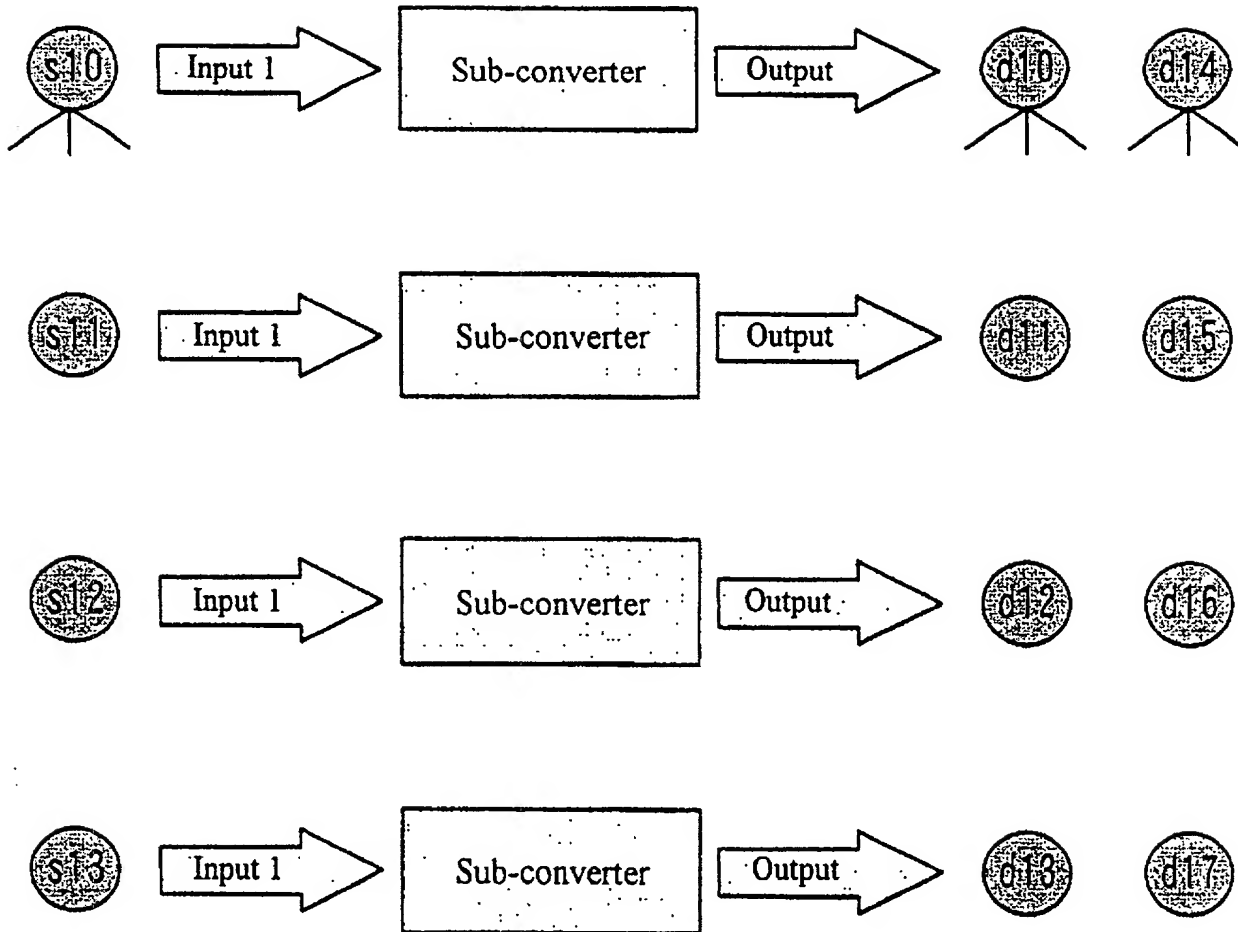


Fig. 13



14/39
G. Kondo
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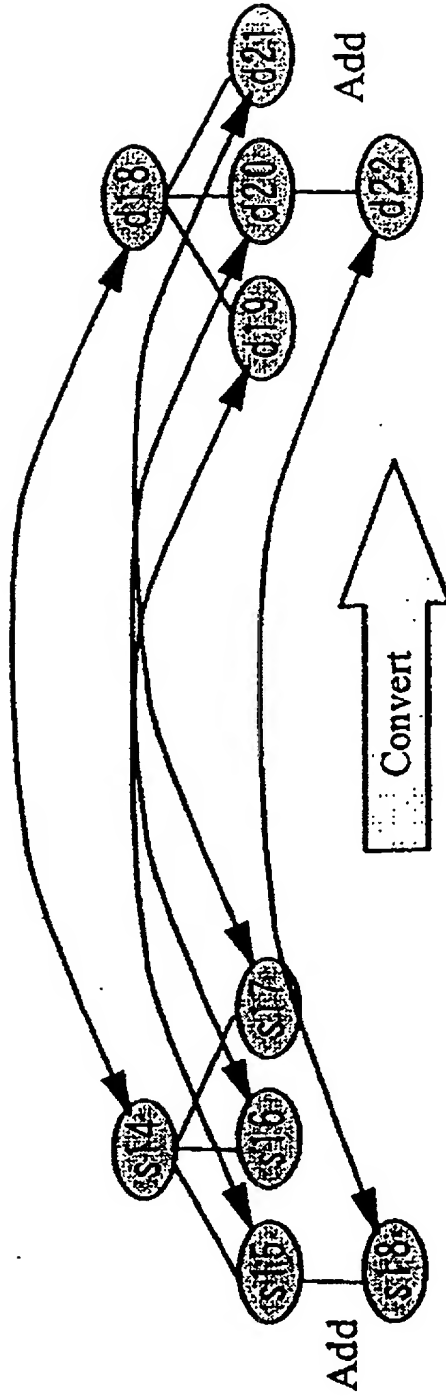


Fig. 14

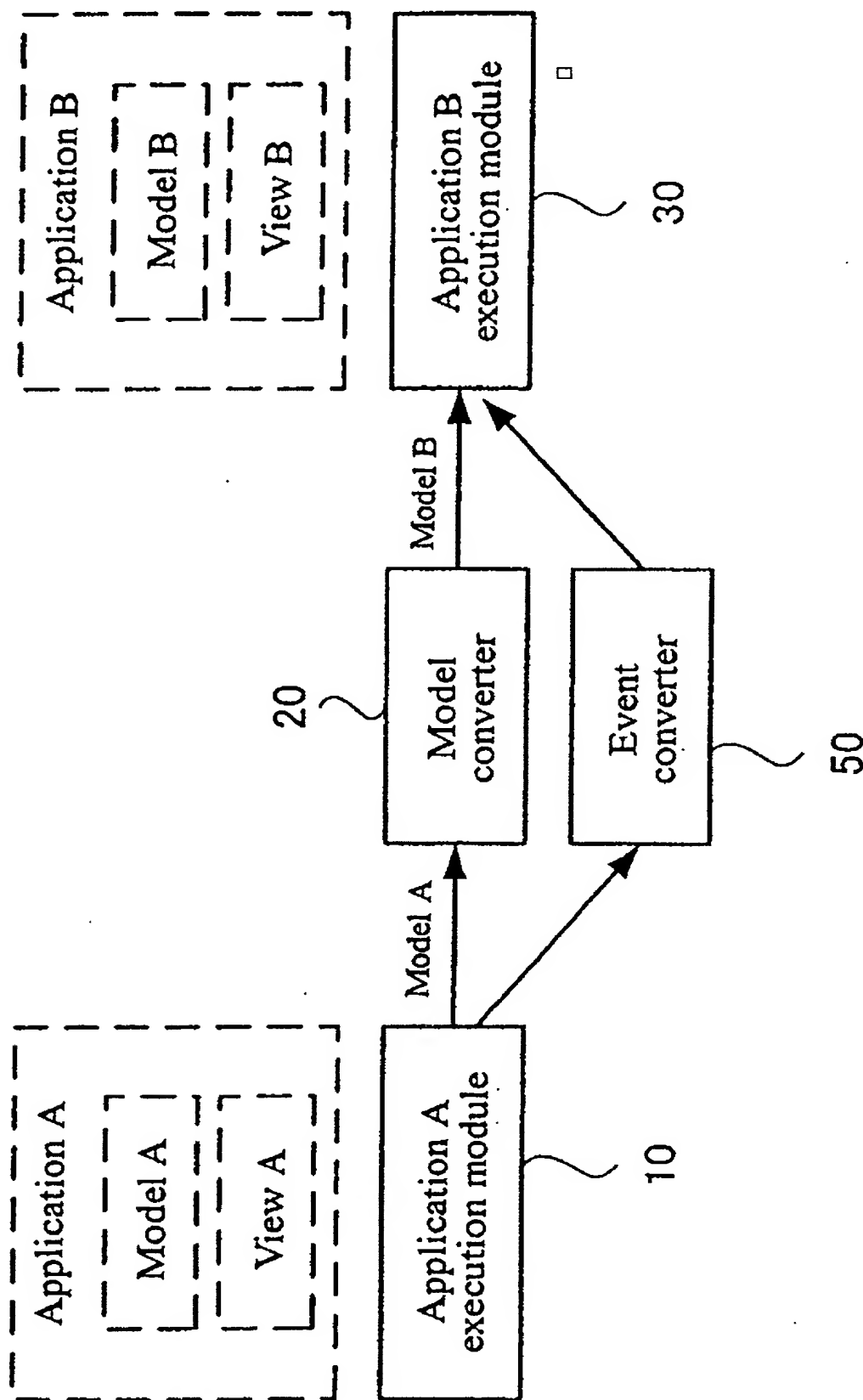


Fig. 15

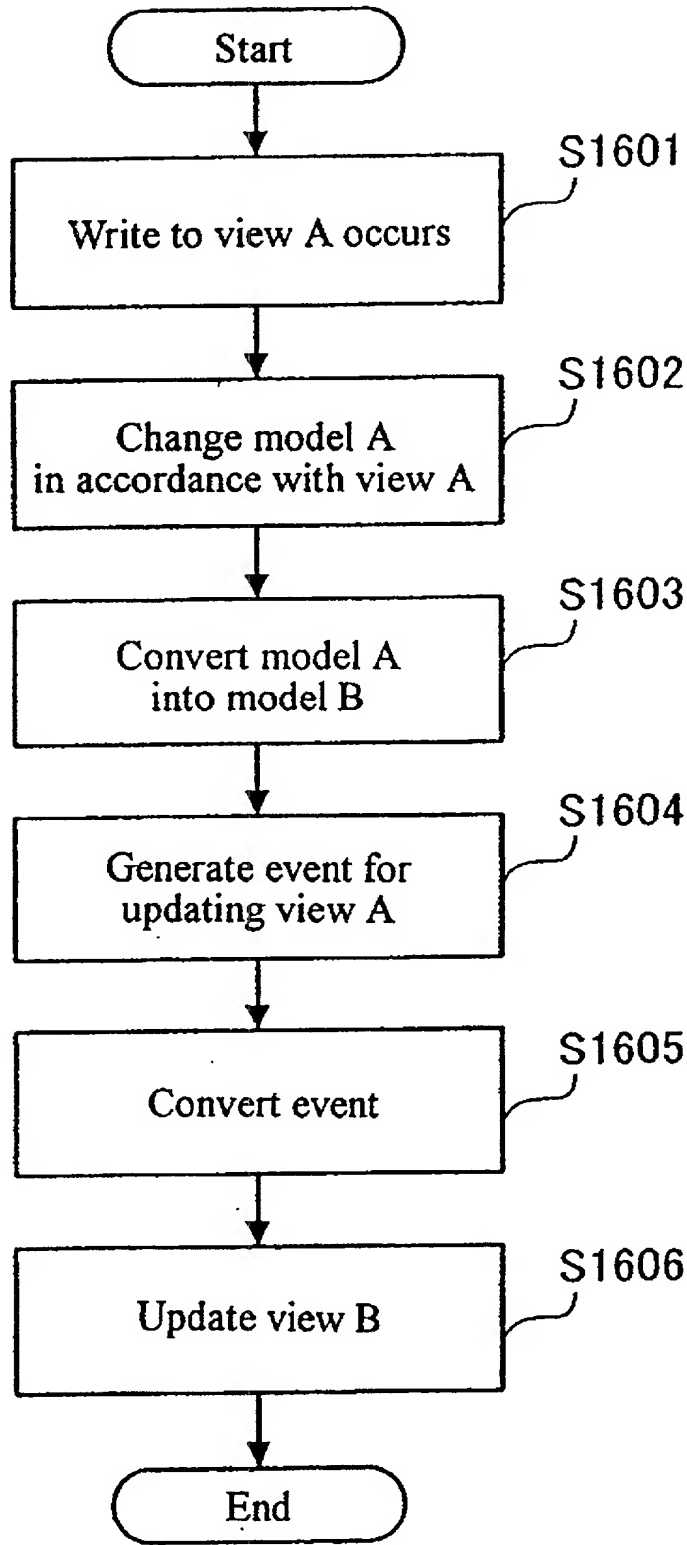


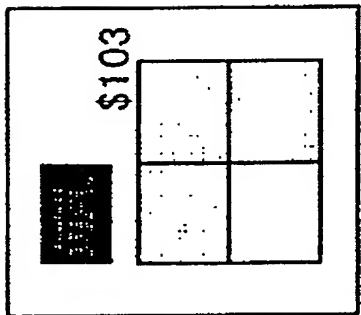
Fig. 16

S1606

```
<?xml version="1.0" encoding="UTF-8" ?>
<html>
<head>
<title>Document</title>
</head>
<body>
<table border="1">
|  |  |
| --- | --- |
|  |  |
|  |  |


</body>
</html>
```

S1601



View

S1605

Insert event

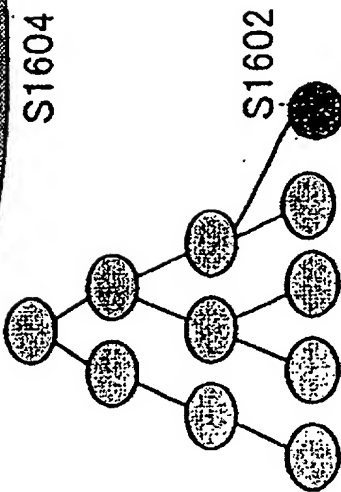


conversion file

S1603

S1604

Insert event



Model

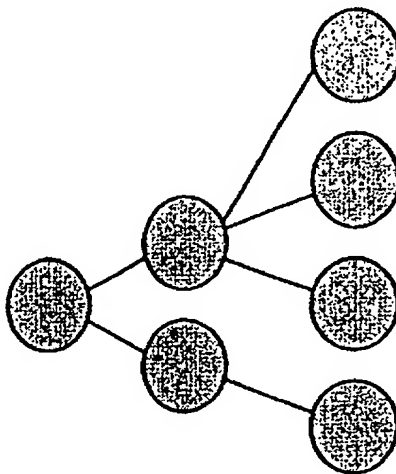


Fig. 17

FIG. 18

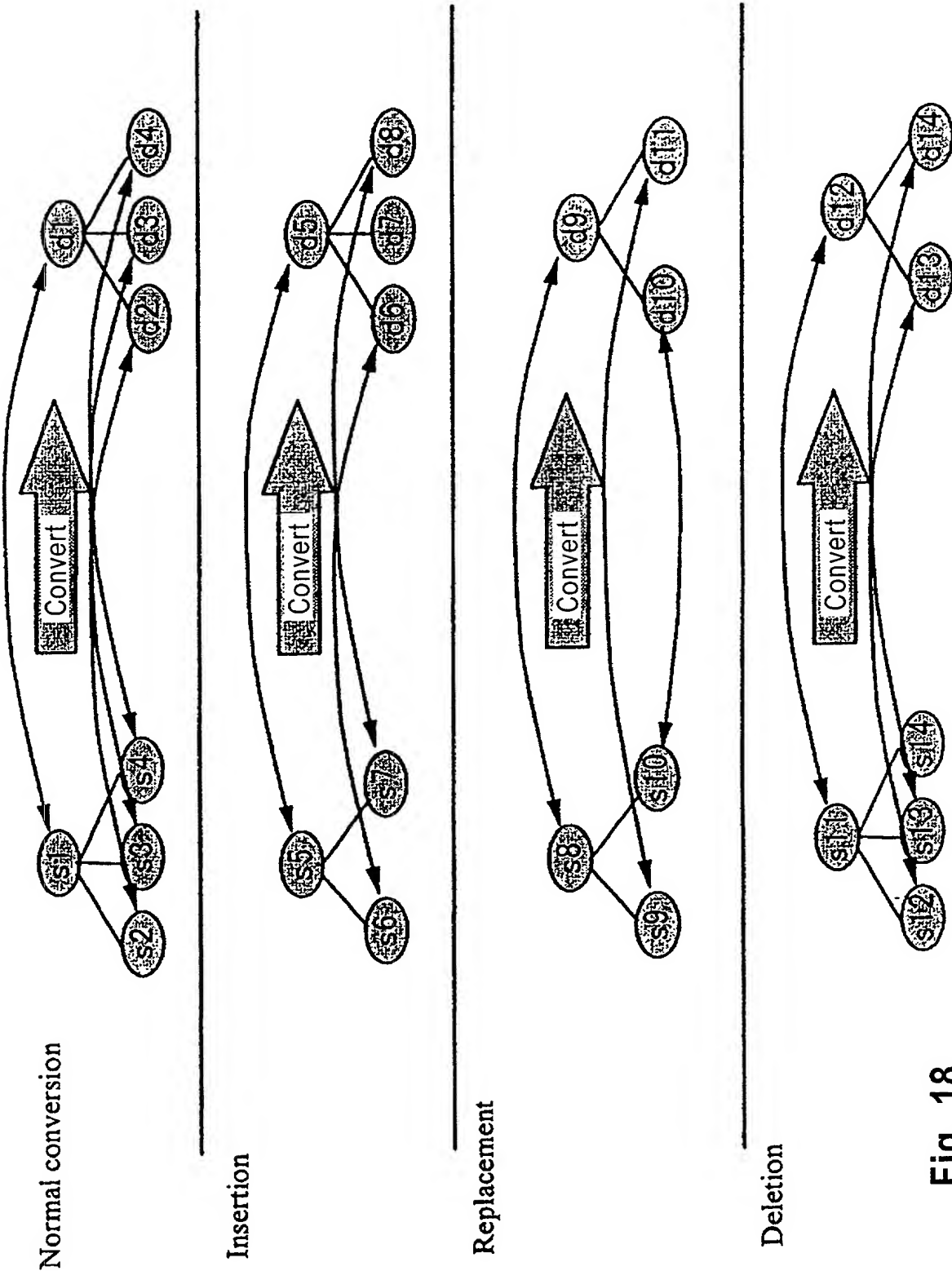


Fig. 18

FIG. 19

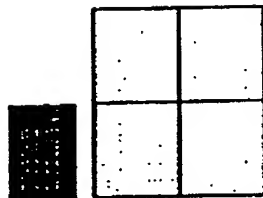
View

JTree(0)

```
com.ibm.as400.access.AS400JDBCDataSource@171
  1--> <DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html401/DTD/xhtml1-strict.dtd">
  2--> <html>
  3--> <head>
  4--> <title>Title</title>
  5--> <meta name="description" content="Description of the page" />
  6--> <meta name="keywords" content="keywords" />
  7--> </head>
  8--> <body>
  9--> <div id="container">
  10--> <div id="content">
  11--> <div id="main">
  12--> <div id="text">
  13--> <p>This is a sample page for testing the JTree component. It contains a tree structure of nodes and branches. The tree is rooted at the top and branches out into several levels. The nodes are represented by circles, and the branches are represented by lines. The tree is used to display hierarchical data. The JTree component is a Swing component that can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface. The JTree component can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface. The JTree component can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface.
  14--> </p>
  15--> </div>
  16--> </div>
  17--> </div>
  18--> </div>
  19--> </body>
  20--> </html>
```

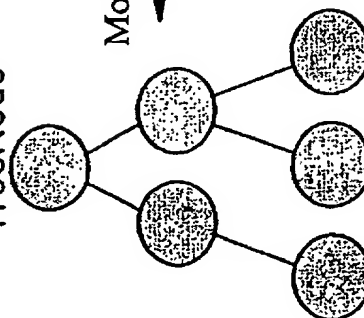
JTree(1)

```
com.ibm.as400.access.AS400JDBCDataSource@171
  1--> <DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html401/DTD/xhtml1-strict.dtd">
  2--> <html>
  3--> <head>
  4--> <title>Title</title>
  5--> <meta name="description" content="Description of the page" />
  6--> <meta name="keywords" content="keywords" />
  7--> </head>
  8--> <body>
  9--> <div id="container">
  10--> <div id="content">
  11--> <div id="main">
  12--> <div id="text">
  13--> <p>This is a sample page for testing the JTree component. It contains a tree structure of nodes and branches. The tree is rooted at the top and branches out into several levels. The nodes are represented by circles, and the branches are represented by lines. The tree is used to display hierarchical data. The JTree component is a Swing component that can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface. The JTree component can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface. The JTree component can be used to display a tree structure of nodes and branches. It is a subclass of JComponent and implements the TreeView interface.
  14--> </p>
  15--> </div>
  16--> </div>
  17--> </div>
  18--> </div>
  19--> </body>
  20--> </html>
```



Model

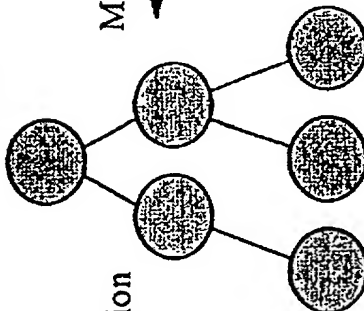
TreeNode



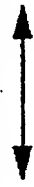
Model conversion



HTMLDOM



Model conversion



SwingDocument

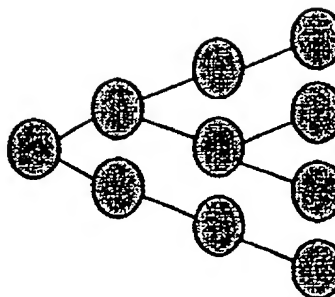


Fig. 19

Fig. 20



Fig. 21



22/39
G. Kondo
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POWERPACKED OFFER

File Edit View Options Windows Help

File View Print Favorites Home Web Tools

Government

→ Developers

→ IBM Business

→ Partners

→ Job seekers

→ Investors

→ Journalists

→ IBM Worldwide

Power packed offer

Special offer on a battery backup system when you buy select ThinkPad notebooks and desktop computers. (U.S. only)



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→ chip facility in Shanghai

e-business
hosting

IBM @server

Self-service
support

e-business

Fig. 22

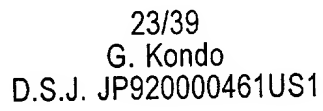


Fig. 23



24/39
G. Kondo
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FIG. 24

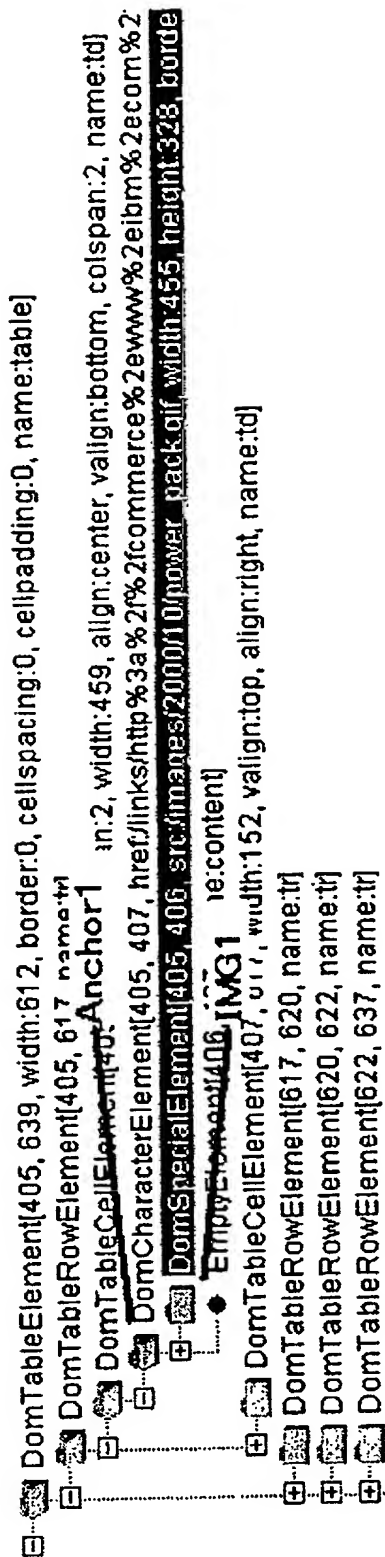


Fig. 24



26/39
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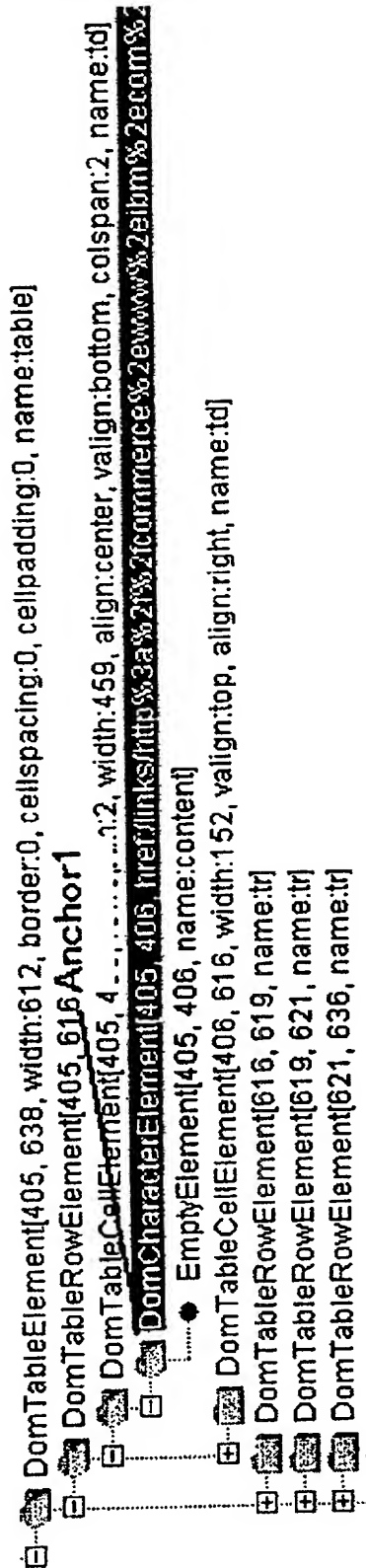
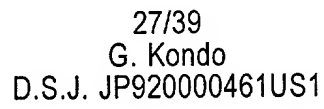


Fig. 26



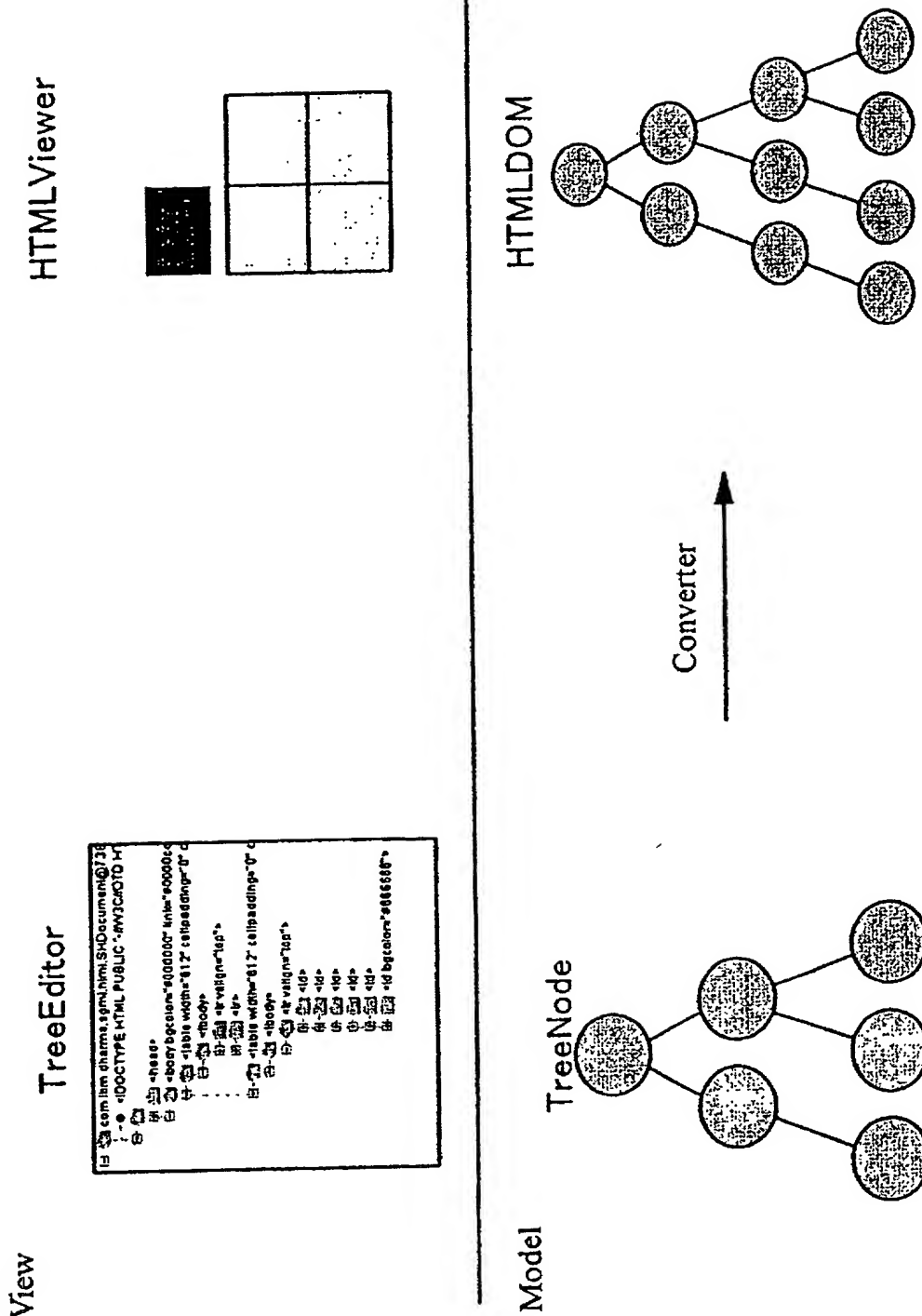


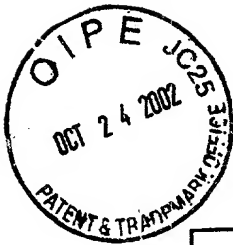
Fig. 28



29/39
G. Kondo
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<?xml version="1.0"?>
<!ELEMENT discussion thread*>
<!ATTLIST discussion name CDATA #REQUIRED>
<!ELEMENT thread statement+>
<!ATTLIST thread id ID #IMPLIED>
<!ELEMENT statement (content, statement*)>
<!ATTLIST statement
 subject CDATA ""
 writtenby CDATA "anonymous"
 id ID #IMPLIED
>
<!ELEMENT content #PCDATA>

Fig. 29



```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns="http://www.w3.org/TR/xhtml1/strict">
<xsl:template match="discussion">
  <html>
    <head>
      <title>
        <xsl:valueof select="@name"/>
      </title>
    </head>
    <body>
      <xsl:apply-templates/>
    </body>
  </html>
</xsl:template>
<xsl:template match="thread">
  <ul>
    <xsl:apply-templates/>
  </ul>
</xsl:template>
<xsl:template match="statement">
  <li><b><xsl:valueof select="@subject"/></b> - <i><xsl:valueof
select="@writtenby"/></i><br/>
    <xsl:apply-templates select="content"/>
  <ul>
    <xsl:apply-templates select="statement"/>
  </ul>
</li>
</xsl:template>
<xsl:template match="content">
  <xsl:apply-templates/>
</xsl:template>
```

Fig. 30



31/39
G. Kondo
D.S.J. JP920000461US1

```
<?xml encoding="US-ASCII"?>  
<!DOCTYPE discussion SYSTEM "discussion.dtd">  
<discussion name="Transformer Discussion">  
  <thread id="1">  
    <statement subject="Test" writtenby="kondo">  
      <content>This is a test.</content>  
    </statement>  
  </thread>  
</discussion>
```

Fig. 31



```
<html>
<head>
<title>Transformer Discussion</title>
</head>
<body>
<ul>
<li><b>Test</b> - <i>kondo</i><br>
This is a test.
<ul>
</ul>
</ul>
</body>
</html>
```

Fig. 32



```
<html>
<head>
<title>Transformer Discussion</title>
</head>
<body>
<ul>
<li><b>Test</b> - <i>kondo</i><br>
This is a test.
<ul>
<li><b>OK</b> - <i>anonymous</i><br>
OK
</ul>
</ul>
</body>
</html>
```

Fig. 33



Source	Sales	Recurring profit	Current profit
Company I	1000	100	50
Company F	400	80	40
Company H	600	50	25

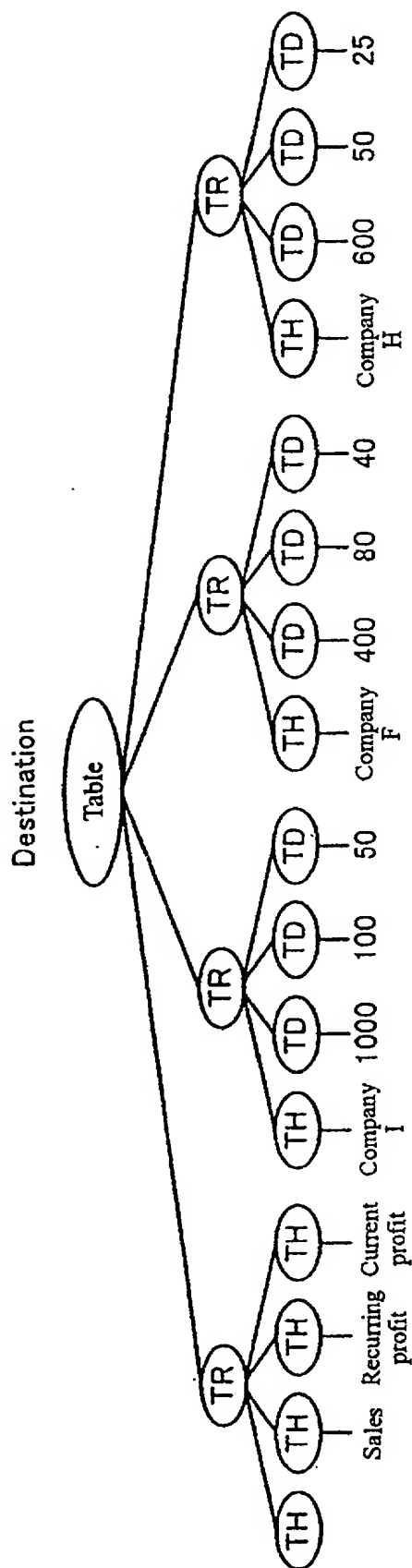


Fig. 34



Source	Sales	Recurring profit
Company I	1000	100
Company F	400	80
Company H	600	50

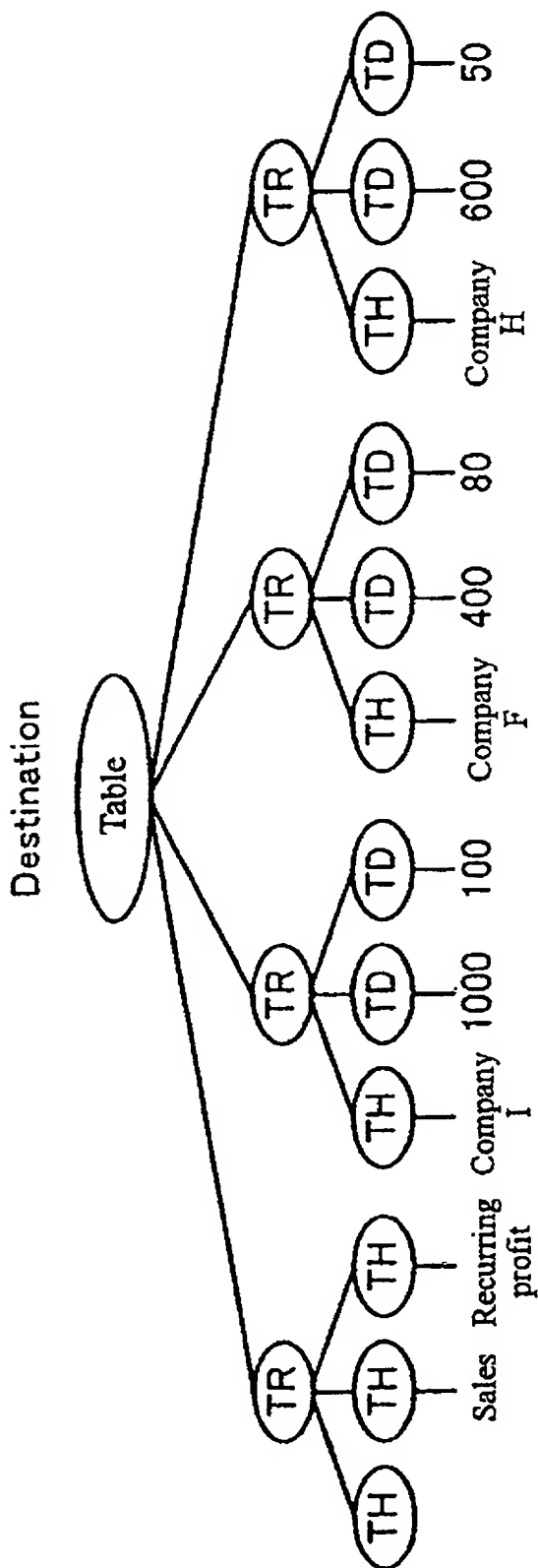
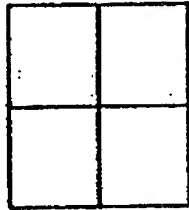
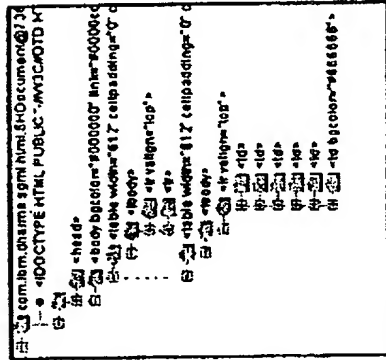


Fig. 35

[illegible]

```
<html>
<body>
...
</body>
</html>
```



10

Model

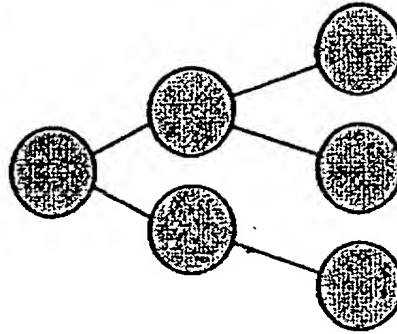


Fig. 36

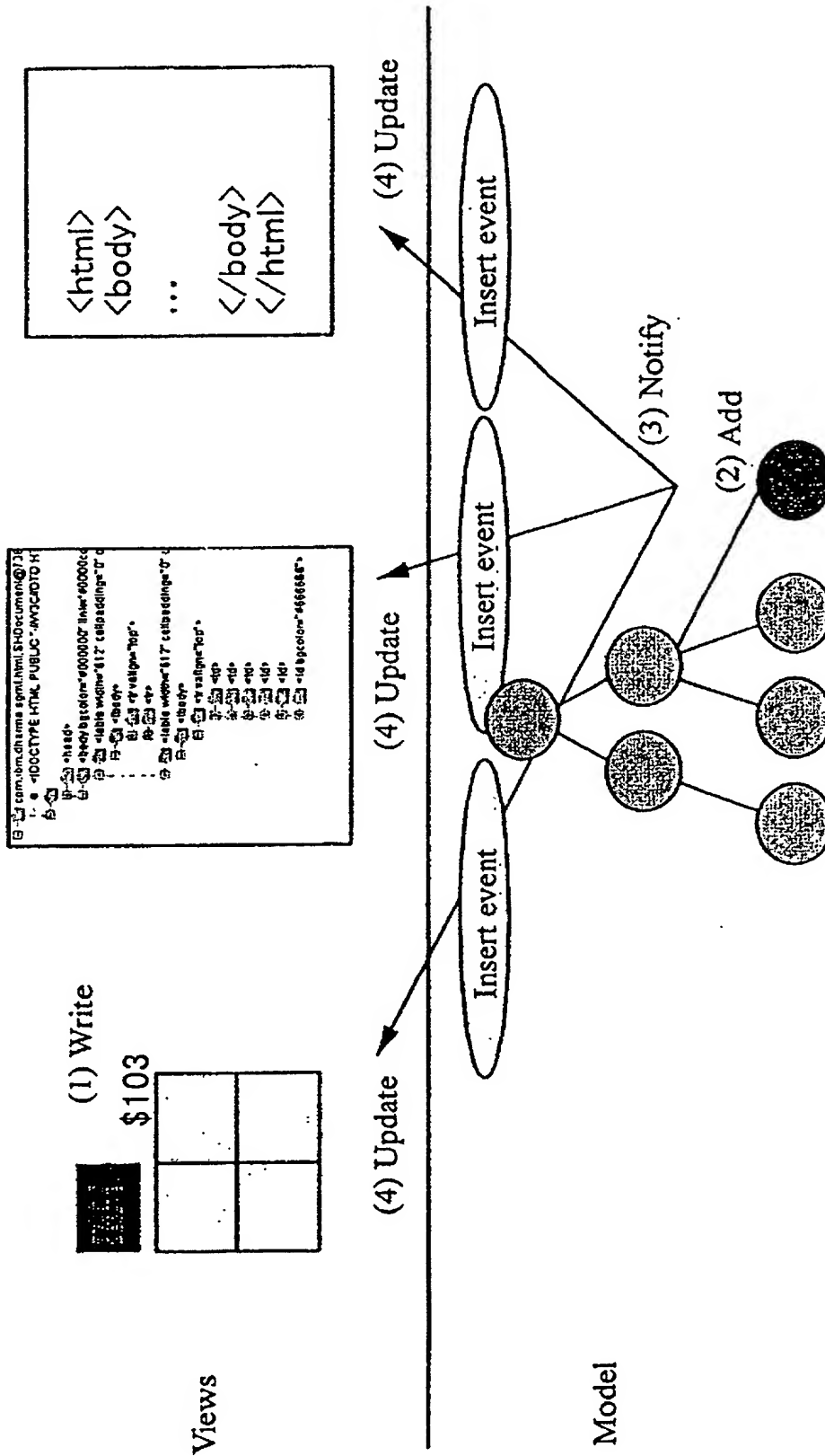


Fig. 37

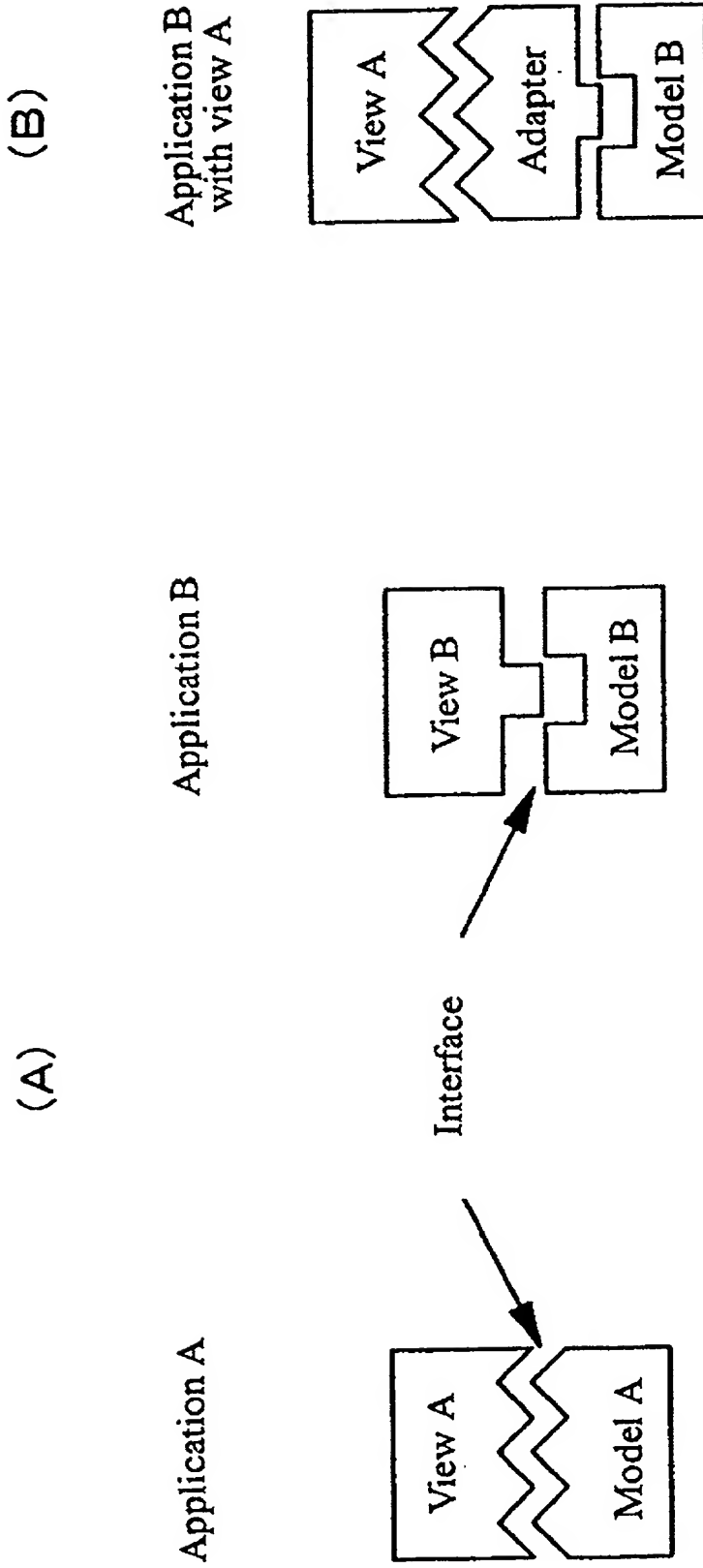
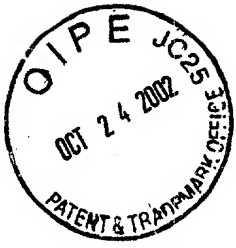


Fig. 38



Fig. 39

